

Lead In Missouri

LEAD NONATTAINMENT AREAS

Various lead compounds are associated with damage to the brain and nervous system. Three sites in southeast Missouri are designated by EPA as nonattainment areas for airborne lead. A smelting facility is located at each site. The federal Clean Air Act Amendments of 1990 require states to bring the air at all nonattainment sites into compliance

with the lead standard. With the cooperation of the Doe Run Company, control strategies were developed for sites in Herculaneum, Buick and Glover, MO. New controls are being planned for the Doe Run Herculaneum smelter. The state will continue to enforce controls such as the enclosure and ventilation of processes, better air filtration and improvements in material handling.

Lead Nonattainment Areas



Nonattainment Area

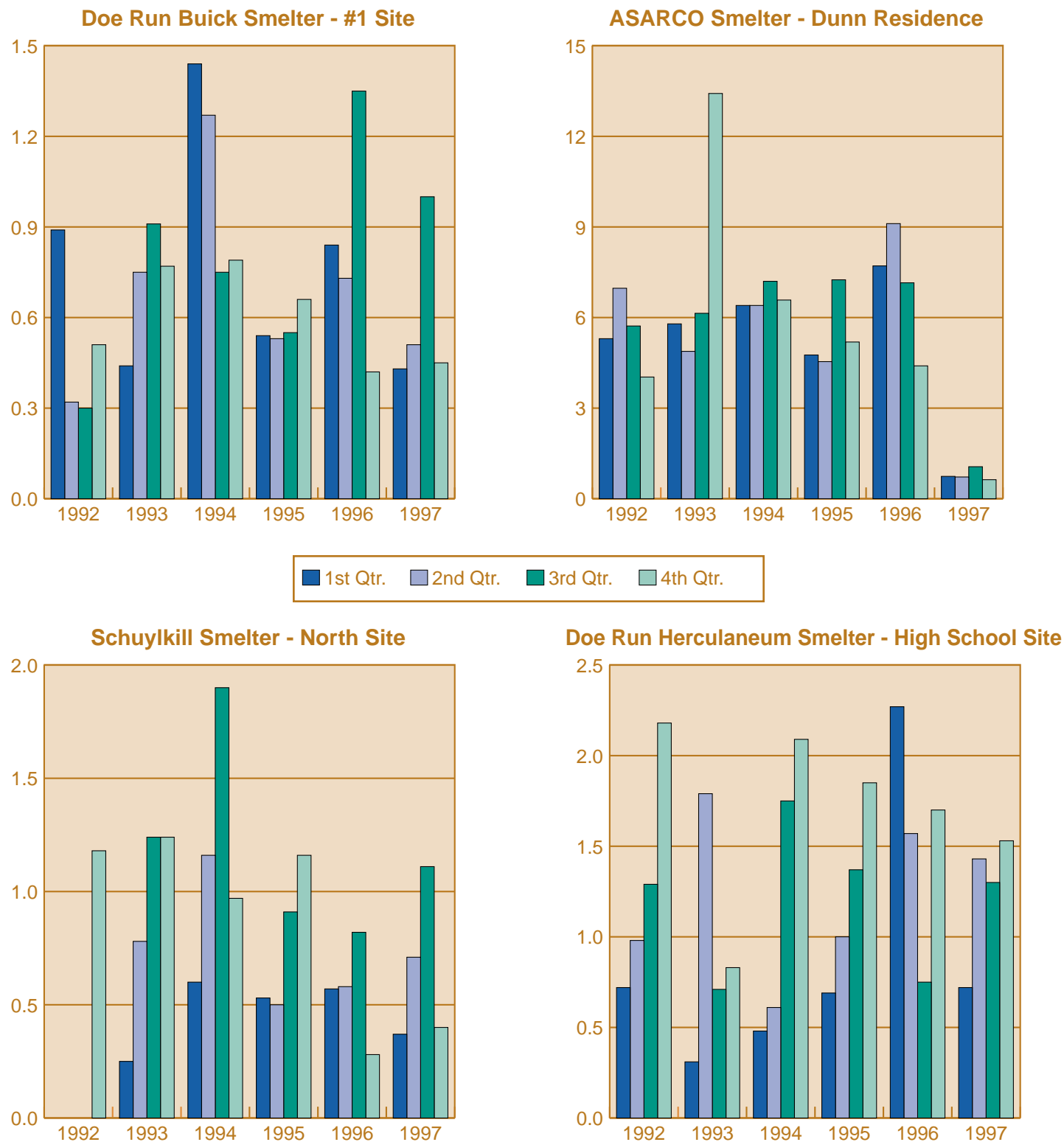
- 1 City of Herculaneum
- 2 Dent Township
- 3 Liberty/Arcadia Township

Primary Lead Emitter

- Doe Run, Herculaneum
Doe Run, Buick
Doe Run, Glover

AVERAGE QUARTERLY CONCENTRATIONS OF LEAD IN AMBIENT AIR NEAR LEAD SMELTERS IN MISSOURI

Since Missouri is the chief lead-mining district in the nation, with several smelters, the department conducts ambient monitoring for lead. Developed by EPA, the health standard for lead defines the maximum safe level for human exposure to this otherwise useful metal. The National Ambient Air Quality Standard for lead is 1.5 micrograms per cubic meter, averaged from all the monitor filters in one-quarter of the year. Individual filters may be much higher than the standard.



Source: U.S. Environmental Protection Agency national AIRS database.